



# **BAR CODE MEDICATION ADMINISTRATION (BCMA)**

## **GUI USER MANUAL**

Version 2.0  
May 2002

(Revised June 2003)



# Revision History

The table below lists changes made since the initial release of this manual. Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. Either update your existing manual with the Change Pages document, or replace it with the updated manual.

**Note:** The Change Pages document may include unedited pages needed for two-sided copying. Only edited pages display the patch number and revision date in the page footer.

Date	Revised Pages	Patch Number	Description
06/03	i-xii, 2-4-2-8, 3-19, 3-21, 3-39, 3-41- 3-42, 4-15, 4-17, 4-33	PSB*2*24	<ul style="list-style-type: none"><li>– Updated the paragraph and the Note at the top of this page to make the instructions easier to understand, and expanded this History section, resulting in the renumbering of this section and the Table of Contents. (p. i-xii)</li><li>– Updated the “BCMA VDL (or Main Screen)” example to include the Schedule Type Indicator and BCMA Clinical Reminders marquee. Included the Callout. (p. 2-4)</li><li>– Moved and updated the “Schedule Types” section to include the new Schedule Type Indicator, and added the related Tip. (p. 2-5-2-6)</li><li>– Added information about the new “BCMA Clinical Reminders” marquee. (p. 2-7)</li><li>– Added the “double click” Tip about the PRN Effectiveness feature opposite the Mouse/Stylus section. (p. 2-8)</li><li>– Updated the “BCMA VDL for Active Unit Dose Medications” example to include the new Schedule Type Indicator and BCMA Clinical Reminders marquee. (p. 3-19)</li><li>– Added a “Note” under step #1, and a Tip, and updated the “Schedule Types Area of VDL” example to include the new Schedule Type Indicator alert lights. Removed the Tip at the top of the page since no longer applicable. (p. 3-21)</li><li>– Updated, step #1, and the “Medication Log Dialog Box for PRN Administration” example. Moved the Tip up, and added a new Tip at the bottom of the page. (p. 3-39)</li><li>– Updated, step #2, the Tip at the top of the page, and the “Recording an Effectiveness for a PRN Medication Highlighted on the VDL” example. Added the Callout. (p. 3-41)</li><li>– Updated steps #3-#5, the Tip, and the “Entering an Effectiveness Comment for a Selected PRN Medication” example. Added step #6, and a Tip to the top of the page. (p. 3-42)</li><li>– Updated the “BCMA VDL for Active IV Push and IV Piggyback Medications” example to include the new Schedule Type Indicator and BCMA Clinical Reminders marquee. The scroll bar does not display in the new example. (p. 4-15)</li><li>– Added a “Note” under step #1, and a Tip, and updated the “Schedule Types Area of VDL” example to include the new Schedule Type Indicator alert lights. Removed the Tip at the top of the page since no longer applicable. (p. 4-17)</li><li>– Updated, step #1, and the “Medication Log Dialog Box for PRN Administration” example, moved the Tip up, and added a new Tip at the bottom of the page. (p. 4-33)</li></ul>

# Revision History

Date	Revised Pages	Patch Number	Description
06/03 (cont.)	4-35-4-36, 5-8, 5-9, 8-1-8-8	PSB*2*24	<ul style="list-style-type: none"> <li>– Updated, step #2, the Tip at the top of the page, and the “Recording an Effectiveness for a PRN Medication Highlighted on the VDL” example. Added the Callout. (p. 4-35)</li> <li>– Updated steps #3-#5, the top Tip, and the “Entering an Effectiveness Comment for a Selected PRN Medication” example. Added step #6, and a Tip to the bottom of the page. (p. 4-36)</li> <li>– Updated the “BCMA VDL for Active IV Medications” example to include the new Schedule Type Indicator and BCMA Clinical Reminders marquee. (p. 5-8)</li> <li>– Updated the “Elements Comprising the Display Areas for IV Medications” example to include the new Schedule Type Indicator and BCMA Clinical Reminders marquee. (p. 5-9)</li> <li>– In the Glossary, added definitions for BCMA Clinical Reminders, IV Bag Chronology, IV Bag Detail, Removed, and Schedule Type Indicator. Moved some terms to other pages to accommodate the additions. (p. 8-1-8-8)</li> </ul>
03/03	Title Page, i, ii, v, 1-13, 3-1 3-18-3-19 3-28-3-33 4-14	PSB*2*20	<ul style="list-style-type: none"> <li>– Updated the Title Page and this Revision History Page. (p. i-ii)</li> <li>– Updated the Table of Contents to include the new site parameter, “Patient Transfer Notification Timeframe” and Fractional Dose Orders. (p. 3-1)</li> <li>– Updated the Internet address for the <b>VISTA</b> Documentation Library (VDL). (p. 1-13)</li> <li>– Added the Patient Transfer Notification screen capture and related copy to the “Administering Active Unit Dose Medications” Chapter. (p. 3-18)</li> <li>– Updated the second sentence of the “Note,” under the “Viewing a Patient’s Active Unit Dose Medications” section to include the phrase “— for the selected timeframe only.” Updated the “BCMA VDL for Active Unit Dose Medications” example to include the new Patient Transfer Notification information in the “Last Action” column. Updated the “Tip” at the top of the page to include the words “to be” in front of the word “administered.” (p. 3-19)</li> <li>– Updated the introductory copy to explain the differences in the Multiple Dose dialog boxes. Also updated the Multiple Dose screen captures to include an optional Comments area, and a Multiple Dispensed Drugs: heading for orders with more than one dispensed drug. (p. 3-28-3-29)</li> <li>– Added the Fractional Dose information and related screen captures. (p. 3-30-3-33)</li> <li>– Added the Patient Transfer Notification screen capture and related copy to the “Administering Active IVP/IVPB Medications” Chapter. (p. 4-14)</li> </ul>

# Revision History

Date	Revised Pages	Patch Number	Description
03/03 (cont.)	4-15, 8-3, 8-5, 8-6, B-7	PSB*2*20	<ul style="list-style-type: none"><li>– Updated the second sentence of the “Note,” under the “Viewing a Patient’s Active IVP/IVPB Medications” section to include the phrase “— for the selected timeframe only.” Also updated the “BCMA VDL for Active IV Push and IV Piggyback Medications” example to include the new Patient Transfer Notification information in the “Last Action” column. Updated the “Tip” at the top of the page to include the words “to be” in front of the word “administered.” (p. 4-15)</li><li>– In the Glossary, added the definition for Patient Transfer Notification. Corrected the definition for Held, PSB INSTRUCTOR, PSB MANAGER, PSB STUDENT, Refused, and Schedule Type. (p. 8-3, 8-5, 8-6)</li><li>– Updated the Index to include “Patient Transfer Notification.” (p. B-7)</li></ul>
09/02	Title Page, i, 3-5, 3-41, 4-6, 4-40	PSB*2*3	<ul style="list-style-type: none"><li>– Updated the Title Page and included this Revision History Page.</li><li>– Updated status information about a medication order to reflect that an individual can change a “Given” status to “Not Given” provided they originally marked the order as “Given” on the VDL, or they have been assigned the PSB MANAGER security key.</li><li>– The Chapter 3 and 4 Change Pages are included to ensure that the chapters are updated consistently.</li></ul>
08/02	Title Page, i-x, 7-24	PSB*2*1	<ul style="list-style-type: none"><li>– Updated the Title Page and included this Revision History Page.</li><li>– Renumbered the pages with Roman numerals to include the Revision History Page.</li><li>– Updated the Missed Medications Report By Patient screen capture to reflect the “Order Num” column being moved on the report, to eliminate the order number being misinterpreted as a dosage for some medications.</li><li>– The Chapter 7 Change Pages are included to ensure that the chapter is updated consistently.</li></ul>
05/02			Original Released GUI User Manual.



# Table of Contents

## Chapter 1: Introducing BCMA V. 2.0

<b>Read Me First!</b> .....	<b>1-3</b>
Before Using This Software.....	1-3
Our Target Audience.....	1-3
Discover Benefits of BCMA V. 2.0 .....	1-4
IV and IVP/IVPB Functionality.....	1-4
IV and IVP/IVPB Tracking System.....	1-4
Medication Tabs.....	1-4
Marking Patches.....	1-5
CPRS Med Order Button .....	1-6
Allergies/ADRs Bar .....	1-6
Marking Multiple Medications.....	1-7
“Not Given” Status.....	1-7
Missing Dose Requests .....	1-7
Report Printing .....	1-7
Viewing Future Orders.....	1-8
On-Hold Orders.....	1-8
BCMA Idle Timeout .....	1-8
View Menu and Related Shortcut Keys .....	1-8
<b>Using This Manual .....</b>	<b>1-9</b>
Assumptions That We Made About You .....	1-9
Benefits of This Manual.....	1-9
How This Manual is Organized .....	1-10
Conventions Used in This Manual .....	1-11
Windows Terminology Used in This Manual.....	1-12
Other Sources of Information.....	1-13
Benefits of This Manual.....	1-13
Training Information .....	1-13
This Manual and Related Documentation .....	1-13
<b>BCMA: In a Nutshell.....</b>	<b>1-14</b>
Benefits of BCMA .....	1-14
Improved Patient Safety and Patient Care.....	1-14
Improved Communication Among Medical Center Staff.....	1-14
Commitment to Putting Veterans First.....	1-14
Features Unique to BCMA.....	1-15
What is BCMA?.....	1-16
Reduce Medication Administration Errors.....	1-16
Provides a System of “Checks and Balances” .....	1-16
Augments Nurse’s Clinical Judgment.....	1-17

# Table of Contents

## Chapter 1: Introducing BCMA V. 2.0 (cont.)

Background Information About BCMA .....	1-18
Built on Workgroup's Findings.....	1-18
Provides Immediate Access to Information .....	1-18
Creates a Secure Network Infrastructure.....	1-18
Patient Safety Comes First .. .	1-19
<b>Getting Help — In a Hurry .....</b>	<b>1-20</b>
Offering Superior Customer Service, Technical Support .....	1-20
Your Checklist for Solving Problems .....	1-20

## Chapter 2: Take a Quick Tour of BCMA

<b>Take a Quick Tour of BCMA.....</b>	<b>2-3</b>
Benefits of This Chapter .....	2-3
The VDL: In a Nutshell.....	2-3
A Look at the VDL .....	2-3
Features of the VDL.....	2-5
<b>Get Acquainted With the VDL .....</b>	<b>2-8</b>
Accessing BCMA Features and Options.....	2-8
Menu Bar.....	2-8
Tool Bar .....	2-8
Mouse/Stylus.....	2-8
Keyboard.....	2-9
Understanding the Columns on the VDL.....	2-10
Sorting the Contents of a Column .....	2-13
Resizing the Columns on the VDL .....	2-14
Refreshing the VDL .....	2-15

## Chapter 3: Administering Active Unit Dose Medications

<b>Working with Unit Dose Medications .....</b>	<b>3-3</b>
Benefits of This Chapter .....	3-3
Preparing to Administer Unit Dose Medications .....	3-3
Schedule Types That You Can Administer.....	3-3
Medication Orders That Display on the VDL .....	3-4
Medications Available for Scanning .....	3-4
Marking the Order Status/Last Action Column .....	3-5
Understanding the Status of a Medication Order .....	3-5
Information Stored by BCMA.....	3-6
How BCMA Validates Patient and Medication Information .....	3-7
First Validation By BCMA .....	3-7
Second Validation by BCMA .....	3-7
<b>Med Pass FlowChart for Unit Dose Medications.....</b>	<b>3-8</b>

# Table of Contents

## Chapter 3: Administering Active Unit Dose Medications (cont.)

<b>Administering a Patient's Unit Dose Medications.....</b>	<b>3-9</b>
Let's Get Started: Signing on to BCMA .....	3-9
Scanning and Verifying Patient Information .....	3-14
Preparing to Administer Unit Dose Medications .....	3-19
Viewing a Patient's Active Unit Dose Medications.....	3-19
Changing the Virtual Due List Parameters.....	3-20
Changing Schedule Types on the VDL.....	3-21
Scanning and Verifying Medication Information .....	3-22
Administering a Multiple Dose Order.....	3-28
Administering a Fractional Dose Order .....	3-30
Administering an Order with Multiple Admin Times.....	3-34
Administering an Order with Special Instructions .....	3-35
Specifying the Medication Quantity and Units Given .....	3-36
Specifying the Injection Site for the Medication .....	3-37
Marking a Patch as Removed.....	3-38
Administering a PRN Order.....	3-39
Recording the Effectiveness of a PRN Medication.....	3-41
Administering a Medication Early .....	3-43
Administering a Medication Late.....	3-44
Marking Multiple Medications on the VDL .....	3-45
Changing the Status of a Unit Dose Medication .....	3-47
Adding Comments to a Patient's Medication Record .....	3-49
Looking up a Drug IEN Code .....	3-52
Submitting a Missing Dose Request .....	3-54
<b>Working with Patient Records .....</b>	<b>3-57</b>
Opening a Patient Record.....	3-57
Closing a Patient Record.....	3-60

## Chapter 4: Administering Active IVP/IVPB Medications

<b>Working with IVP/IVPB Medications.....</b>	<b>4-3</b>
Benefits of This Chapter .....	4-3
Preparing to Administer IVP or IVPB Medications.....	4-3
Schedule Types That You Can Administer.....	4-3
Medication Orders That Display on the VDL.....	4-4
Medications Available for Scanning .....	4-5
Marking the Order Status/Last Action Column .....	4-6
Understanding the Status of a Medication Order .....	4-6
Information Stored by BCMA.....	4-7
How BCMA Validates Patient and Medication Information .....	4-8
First Validation By BCMA .....	4-8
Second Validation by BCMA .....	4-8

# Table of Contents

## Chapter 4: Administering Active IVP/IPB Medications (cont.)

<b>Med Pass FlowChart for IVP/IPB Medications .....</b>	<b>4-8</b>
<b>Administering a Patient's IVP/IPB Medications .....</b>	<b>4-10</b>
Scanning and Verifying Patient Information .....	4-10
Preparing to Administer IVP or IPB Medications.....	4-14
Viewing a Patient's Active IVP/IPB Medications .....	4-14
Changing the Virtual Due List Parameters.....	4-15
Changing Schedule Types on the VDL.....	4-16
Scanning and Verifying Medication Information .....	4-17
Administering an Order with Multiple Admin Times.....	4-28
Administering an Order with Special Instructions.....	4-29
Specifying the Medication Quantity and Units Given .....	4-30
Specifying the Injection Site for the Medication .....	4-31
Administering a PRN Order.....	4-32
Recording the Effectiveness of a PRN Medication.....	4-34
Administering a Medication Early .....	4-36
Administering a Medication Late.....	4-37
Marking Multiple Medications on the VDL .....	4-38
Changing the Status of an IVP or IPB Medication .....	4-40
Adding Comments to a Patient's Medication Record .....	4-42
Looking up a Drug IEN Code or Unique Identifier Number .....	4-45
Submitting a Missing Dose Request .....	4-49
<b>Working with Patient Records .....</b>	<b>4-52</b>
Opening a Patient Record.....	4-52
Closing a Patient Record.....	4-55

## Chapter 5: Administering Active IV Medications

<b>Working with IV Medications .....</b>	<b>5-3</b>
Benefits of This Chapter .....	5-3
Preparing to Administer IV Medications .....	5-3
Schedule Types That You Can Administer .....	5-3
Start and Stop Times for IV Medications.....	5-3
Medication Orders That Display on the VDL .....	5-4
Medications Available for Scanning .....	5-5
IV Bag Chronology Display Area on the VDL.....	5-6
Understanding the Status of a Medication Order .....	5-7
Information Stored by BCMA.....	5-7
Viewing a Patient's Active IV Medications.....	5-8
<b>Med Pass FlowChart for IV Medications .....</b>	<b>5-10</b>

# Table of Contents

## Chapter 5: Administering Active IV Medications (cont.)

<b>Administering IV Bags with Unique ID Number .....</b>	<b>5-11</b>
How BCMA Validates IV Bags with Unique Identifier Number .....	5-11
Scanning and Verifying Medication Information .....	5-12
Changing the Status of an IV Bag.....	5-19
<b>Administering Ward Stock Items.....</b>	<b>5-21</b>
How BCMA Validates Ward Stock Items .....	5-21
Scanning and Verifying Medication Information .....	5-21
Changing the Status of a Ward Stock Item .....	5-24
<b>Administering a Patient's IV Medications .....</b>	<b>5-27</b>
Administering an Order with Special Instructions.....	5-27
Marking an IV Bag as Held or Refused .....	5-28
Adding Comments to a Patient's Medication Record .....	5-31
Submitting a Missing Dose Request .....	5-34
<b>Working with Patient Records .....</b>	<b>5-37</b>
Opening a Patient Record.....	5-37
Closing a Patient Record.....	5-40

## Chapter 6: Using the CPRS Med Order Button

<b>Understanding the CPRS Med Order Button .....</b>	<b>6-3</b>
Benefits of This Chapter .....	6-3
Providing a Link to CPRS.....	6-3
How the CPRS Med Order Button Works .....	6-3
Verifying the Documentation Process.....	6-3
Enabling the CPRS Med Order Button Functionality .....	6-4
<b>Workflow Chart for CPRS Med Order Button .....</b>	<b>6-5</b>
<b>Using the CPRS Med Order Button .....</b>	<b>6-6</b>
Ordering and Documenting STAT or NOW Orders .....	6-6
Accepting an Administering Unit Dose Order.....	6-9
Accepting an Administering IV Order.....	6-10
Reviewing and Signing STAT or NOW Orders.....	6-11
Processes Completed by Each Application.....	6-13

# Table of Contents

## Chapter 7: Viewing and Printing BCMA Reports

<b>Viewing and Printing BCMA Reports .....</b>	<b>7-3</b>
Benefits of This Chapter .....	7-3
Enhancements to Report Printing.....	7-3
PRN Effectiveness List .....	7-3
MAH Date Range Selection.....	7-3
Future Orders .....	7-3
Viewing/Printing Demographics Data .....	7-4
Viewing/Printing Allergy and ADR Information.....	7-6
Viewing/Printing an Order from Inpatient Medications .....	7-8
Viewing/Printing a Due List Report .....	7-11
Viewing/Printing a Medication Log Report.....	7-16
Viewing/Printing an MAH Report.....	7-19
Viewing/Printing a Missed Medications Report .....	7-22
Viewing/Printing a PRN Effectiveness List Report.....	7-25
Viewing/Printing an Administration Times Report .....	7-28
Viewing/Printing a Medication History Report .....	7-31

## Chapter 8: Glossary .....

**8-1**

<b>Appendix A: Frequently Asked Questions .....</b>	<b>A-3</b>
Benefits of This Chapter .....	A-3
Pharmacy-Related Questions and Answers.....	A-3
Recognizing Synonyms.....	A-3
Reading Bar Codes into SYNONYM Field .....	A-3
Tools Available for DRUG file (#50) Clean up .....	A-4
Displaying MESSAGE Field on VDL .....	A-4
Entering Information into QUANTITY Field .....	A-4
Handling Liquid Doses .....	A-5
Entering Dosage Amount Given to Patient .....	A-5
Handling Fill-on-Request Orders .....	A-5
Handling Self-Administer Medications.....	A-6
Managing Sliding Scale Insulin .....	A-6
Displaying Schedule Types of “R” and “Once” on VDL.....	A-6
Configuring the Window of Administration .....	A-6
How “Last Action” Displays on VDL.....	A-7
“LAST ACTION” Field on Medication Order Entry Screen .....	A-7
When an Order Displays on the VDL .....	A-7
Orders That Display on the VDL .....	A-7
Orders That Display Under Each Medication Tab .....	A-8

# Table of Contents

## Appendix A: Frequently Asked Questions (cont.)

Nursing-Related Questions and Answers.....	A-9
How “Last Action” Column Functions .....	A-9
How New Patch Functionality Works.....	A-9
IV Orders That Display on the VDL.....	A-9
Viewing the Patient’s Order .....	A-9
Understanding the Log-in Message.....	A-10
Highlighting a Medication Before Scanning.....	A-10
Handling Unreadable or Missing Bar Code Labels.....	A-10
Orders with a Non-Standard Administration Time .....	A-11
Entering an Ointment Quantity .....	A-11
Scanning Two-Tablet Doses .....	A-11
Documenting a Half-Tablet Dosage.....	A-11
Recording the Contents of Code Carts or Emergency Meds.....	A-12
Sorting Medications By Route on the VDL .....	A-12
Notifying Nurses About Orders on “Hold” .....	A-12
Printing MAH and PRN Reports.....	A-12
Entering Effectiveness Comments .....	A-13
On-Call Orders Displayed on VDL.....	A-13
Access By Nursing Assistants.....	A-13
Documenting Non-Administratin Nursing Activities .....	A-13
Nursing Contraindications and Drug Interactions.....	A-14
Borrowing Meds from Another Patient’s Drawer .....	A-14
Defining “Order Num” on Missed Meds Report.....	A-14
Documenting Narcotic Waste .....	A-14
Documenting Blood Products .....	A-14
Documenting Inhalation Treatments.....	A-14
Locating BCMA Information in CPRS .....	A-15
Changes to Order Entry Process.....	A-15
Handling Inpatients in Outpatient Areas .....	A-15
Handling Patients in the OR and PACU .....	A-15
Handling Evening Coverage When Pharmacy Closed.....	A-16
IRM-Related Questions and Answers .....	A-17
Contingency Plan for Facilities .....	A-17
BCMA Won’t Run After Installation.....	A-17
CPRS Required for Running BCMA .....	A-18
New Files Included in BCMA V. 2.0 .....	A-18
Medication Not Displaying on the VDL .....	A-18
Setting Parameters for the Broker Server.....	A-18
Directing Error Log to Another Directory .....	A-19
Clock Used for Displaying Administration Times .....	A-19
Requirements for Laptops and Scanners .....	A-19
Locating Durable Wristbands.....	A-20

# Table of Contents

## Appendix A: Frequently Asked Questions (cont.)

IRM-Related Questions and Answers (cont.)	
Scanners Not Reading Patient Wristbands.....	A-20
Establishing Electronic Signature Codes .....	A-20
VDL Parameters Different Than Default Site-Defined Parameters .....	A-21
Upgrading an ATC Machine .....	A-21
Obtaining Centralized Funding .....	A-21
<b>Index .....</b>	<b>B-1</b>